

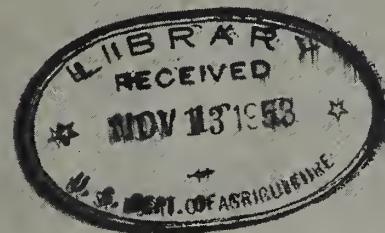
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1.982  
A2B89  
1953

# the Bureau of Human Nutrition and Home Economics



what it is...  
what it does

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To put science  
is the assignment  
United States Dep.  
of Human Nutrition

The Bureau  
sumers, particularly  
branches aid the food  
earner. Homemaking  
more than 33,000,  
largest occupation;  
in buying, and in man  
an important benefit  
Nation's families etc.



BOOK NUMBER 1.982  
A2B89

1953

The Bureau's task, in one sentence, is to develop through research new knowledge about efficient household management, and ways to make best consumer use of food, fiber, and other products of the country's farms.

Three roads to progress are taken in carrying out the task:

1. More knowledge is sought about basic needs for food, housing, and other goods and services that figure in everyday living...as guidelines to how well off the Nation's families are and what shortcomings remain.
2. More knowledge is sought about these goods and services...for increasingly effective use of the Nation's resources.
3. Statistical pictures are taken at intervals to show what families buy and use in everyday living...to see how the Nation is advancing toward being better fed, housed, clothed.

The Bureau's name stresses human nutrition because its major research is in this field, to put food to best use in man's service. Some call it the BHNHE for short.

The Bureau's staff numbers about 250. Most of these are scientific specialists and their aides, working on the research projects selected for the current program.

Many are home economists, as you might expect, but most of these have an added major or minor in some specialty, such as nutrition, experimental cookery, chemistry, physics, bacteriology, textiles, housing, household equipment, economics, statistics. Specialization is necessary in research.

Besides home economists, the research staff includes men and women who are expertly trained and experienced as chemists, physicists, physiologists, bacteriologists, architects, statisticians. And since research jobs are not done until findings are put into usable forms, the staff includes a few writers, editors, and others versed in preparing material for public use. The remainder of the personnel provide the administrative and other services to keep wheels of progress running smoothly.

When new employees are needed, the Bureau consults civil service lists of those who have qualified. The Civil Service Commission, Washington 25, D. C., is always willing to take names and notify applicants when examinations are to be given in their fields. Usually, there's an examination for home economists each autumn. College seniors can take this examination, and thus may be on the civil service list by the time they graduate in June.

The Bureau is located partly in downtown Washington, D. C., and partly in Maryland, 16 miles away.

In Maryland, near Beltsville, are the experimental laboratories for work in food and nutrition, textiles and

clothing, housing and household equipment. The Bureau is housed in two colonial-style brick buildings in a research center maintained by the U. S. Department of Agriculture.

In Washington, in the Department's South Building, are the offices of the Family Economics Division, which gathers information by interviewing families in different parts of the country and does its analytical work at desks, typewriters, and calculating machines. Here also are the Bureau's information and administrative offices.

Other research organizations take part in some of the research, either on a cooperative or contract basis. Such arrangements to speed progress are made with Federal and State agencies and also with non-governmental organizations, such as universities, having specialized personnel and facilities.

And now, let's look into some of the laboratories and workrooms.

## **Food and Nutrition Research**

### **What's in a food**

Turning in at a nutrition chemistry laboratory, you find a research group studying food carbohydrates. Food composition tables now published give the carbohydrate content of foods in general terms. But newer equipment and techniques open the way to determining systematically the amounts of different types of carbohydrates--the starches, sugars, pentosans, cellulose. As a beginning, these chemists face the question: What kinds and amounts of sugars, singly or combined--sucrose, glucose, xylose, and so on--are present in familiar foods?

Answers will lead to a research question to be taken up by staff nutritionists: To what extent is each

kind of carbohydrate utilized by the body? Findings will add to understanding of nutritive values of many foods and will help those who plan diets for the well and the sick.

In another nutrition laboratory, the staff is measuring amounts of some of the newer B vitamins in foods. Awhile back, they assayed many foods for folic acid to round out research with this vitamin by other scientists. Now they are taking stock of pantothenic acid; and they may go on to work with vitamin B-12. As tools to measure a food's content of these vitamins they choose micro-organisms known to require a particular 'B.' Into culture tubes they put media adequate for the bacteria's nutritional needs except for the one nutrient being tested-- and this is provided by extracts from foods. The more the tiny organisms grow and multiply, the greater the amount of the vitamin in the particular food being studied.

Micro-organisms are at work similarly in the protein chemistry laboratories. In fact, one achievement in these laboratories has been developing and applying microbiological procedures to measure more quickly and easily amounts of amino acids that proteins contain. Nine of the nutritionally important amino acids in foods are now being determined in this way.

#### Experimental diets

In the nutrition physiology laboratories, some rooms are occupied by colonies of rats, helping to answer questions about food requirements for growth and for well-being throughout life, or the relative usefulness of different foods for specific purposes. It is increasingly evident that the body is able to use many nutrients in foods only to a partial extent. Hence, the task of taking a food apart chemically and reporting on its content of key nutrients is often followed by these biological experiments to show true nutritive value.

One of the newer fields of research is the realm where teamwork among nutrients is being studied. So,

some rats are on diets planned to gain new knowledge about the body's use of proteins when eaten together with specific carbohydrates...that is, does a particular carbohydrate lessen or increase the body's requirement for a particular amino acid? Other rats are used to study some effects of food combinations at different stages of growing up and growing old.

#### Food-preservation progress

In the food preservation laboratories much research has been done to put home canning and freezing on a scientific basis--an important matter to 20,000,000 families in the United States, who put up some of their own food. Many use the Bureau's direction booklets, and others get the same directions quoted in magazines, newspapers, and other channels to the public eye.

Now, on the laboratory tables you find bright colored jellies, and apparatus for measuring the set, or strength, of a jelly, the sugar content, acidity, and other characteristics. Different proportions of fruit and sweetening and types of pectins on the market are being used in the experimental batches, and time-saving shortcuts are sought. When taste-test reports and other records are evaluated, the Bureau will give homemakers the benefit in an up-to-date revision of its directions for using fruit in sweet spreads.

#### Scientific home cooking

In food-preparation laboratories, you find professional staff and their helpers weighing, measuring, mixing. They may be experimenting with some food unfamiliar to many homemakers. When young turkeys no bigger than chickens began coming to market, directions for roasting these handy small birds were developed here. When dry milk products became much more plentiful, the staff conducted experiments to provide up-to-date information on reconstituting dry milk and using it in cooking and in mixes, and on ways to use it to put ex-

tra milk into meals. At other times the staff may be determining the effect of different household methods of cooking on flavor, tenderness, or yield of a food.

#### Quality questions

Much of the Bureau's research on food for the table is done cooperatively with the Department of Agriculture's plant and animal research scientists and market specialists. Ups and downs of quality often appear to be linked with differences in feed management of livestock, ways of using insecticides in food production, or temperature of a food during shipment or storage. So, at times, the Bureau undertakes to evaluate the cooking and eating quality of sample lots of food from an experimental farm or other known source.

#### Food for many

One kitchen has institution-type cookers, a chef's table, and other equipment for experimental cooking on a large-quantity scale. Here, many recipes for use in school lunch programs have been developed. More recently, the research has been aimed at using plentiful foods in new dishes that will appeal to adult taste--to expand use of these foods in restaurants, hospitals, and other institutions where large numbers are served.

#### Beyond Beltsville

The foregoing glimpses have offered a sample of the Bureau's food and nutrition research in its own laboratories. To round out the picture, here are a few examples of work being done cooperatively or by contract to speed the Bureau's research program:

In Texas, fatty acids--among the obscure, yet important, nutrients--are being studied to find out the amounts and kinds that children need for normal growth and development.

In Illinois, Iowa, and Wisconsin, experimental

work is being done to learn the thiamine and riboflavin requirements of normal individuals in different age groups.

In New York, the amounts of energy required for different activities by growing children and adults are being determined, for more exact knowledge of food energy needs.

Research organizations in many States are cooperating with the Bureau to gain scientific facts about food habits and the nutritional condition of selected population groups, such as teen-agers, young children, older men and women.

In Indiana, Louisiana, and Washington, shell eggs are being used in cooking and baking and the products judged for eating quality, to learn more about market grades, storage conditions, and other factors in relation to quality.

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(Below) Learning a shortcut microchemical technique, these nutrition scientists will be able to analyze a few drops of blood from a fingertip and report the blood-owner's rating on four nutrients.





1. This rat with its head in a hood is having its blood pressure measured...in studies to learn relationships between diet and premature aging.

2. By laboratory-precise cookery, the BHNHE is helping to classify potatoes as to suitability for various cooking methods...part of the Department's research to improve marketing.

3. Three stages in a food chemistry experiment on raw and cooked boneless beef. Here, beef is being trimmed, ground, and analyzed for nutritive values.



# Textile and Clothing Research

## Fabrics to fit needs.

In the physical properties laboratories facts about fabrics are sought for two-way advantage: to help homemakers select fabrics to suit different purposes; to give the textile industry guidance in meeting consumer needs.

For some of this work the weather must be controlled. So, double-protecting doors lead into an air-conditioned room where machines measure fabrics' breaking strength, stretch, resistance to rubbing, air permeability, and other traits. You might find the machines at work with samples of cotton knit goods or housedress materials woven to specification using yarns of different size and number per inch.

## Facts from wear

Actual wear experiences sometimes add to what machines and other laboratory techniques can tell about fabrics' usefulness. Thus, for months, the customer line in the research center cafeteria has walked over a rug of many colors, which is really sample strips of rugs representing different fibers and kinds of construction. The cash register provides a record of the number of walkers. The procedure calls for daily vacuum cleaning of each sample strip and cleaning at intervals with soap and water. Photographs of the rugs provide a visual record of changes. From time to time a sample is withdrawn from use for machines to report on its physical properties compared with when it was new.

## Fabric care

In one textile chemistry laboratory, home laundering problems are getting attention, including efficiency

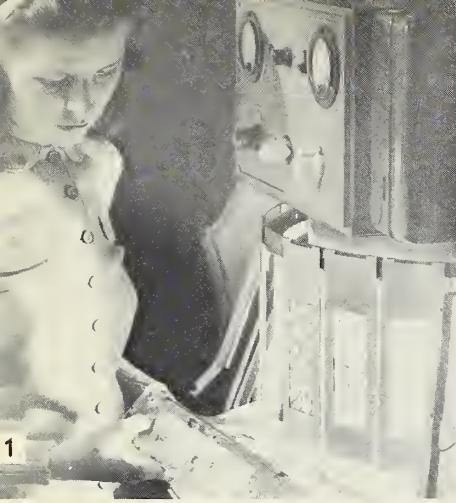
of different detergents in removing soil and their effect on the varied fabrics now on the market.

Another chemist is finding out what differences in stain removal procedures may be required for fabrics with special finishes and those made of the newer fibers. Methodically, she applies fruit juice, grease, and other typical household stains to squares of test fabric and removes the stains, learning not only what chemicals are effective but also whether the goods is affected and whether old as well as fresh stains respond.

#### Putting findings to use

One specialist may be surrounded by notes and records about men's shirts. She is working on one of the Bureau's buying guides, to help consumers judge quality of materials and workmanship when selecting clothing items. To prepare for this writing, she has visited shops, casting an experienced eye over construction details of shirts at varying prices. She has gone to factories to learn more about production methods that affect values important to the consumer. She has brought sample shirts to the laboratory to examine construction points that customers can't see or may not notice but that have a bearing on serviceability, comfort, and appearance.

The research findings also are used by manufacturers as source information for the education of buyers and salespeople and for factual labeling. The scientifically determined facts are also used in determining specifications...for cotton broadcloth for men's shirts, or chambray for women's housedresses, or for construction of the housedress itself.



1. A staff worker loads a frame to be exposed to the laboratory sun, to measure the colorfastness of fabric samples to light...one of the physical properties important to many fabric uses.



2. A textile specialist shows an abrasion machine test on wool samples to a college student--one of a group who have been wearing trousers made of these fabrics for parallel records of actual wear.



3. For a television audience, two BHNHE clothing specialists demonstrate a step in making a dress--part of a lesson series in which the Department of Agriculture sought to measure effectiveness of TV teaching.

# Housing and Household Equipment Research

## Experimenting with space

Entering the housing laboratories, you come upon several housing specialists experimenting with space, to enable home planners to make homes more convenient to work in, more comfortable to live in.

One specialist is determining the space needed for preserving food in the home. She has canned various quantities of food in a laboratory kitchen. Utensils and jars were fitted with cellulose sponge rings dipped in dye, to leave a print where each one occupied space on a paper-covered work counter. Analyzing the space patterns, she can arrive at recommendations for counter space that should be provided in homes where food preservation is an important activity. Followup tasks are to determine adequate storage space in the average farm home for canned foods, and to design convenient storage facilities.

As guidance on the extent of canning now done, she refers to data in statistical reports that show kinds and quantities of food put up by farm families in different parts of the country. Such source statistics are available since the Bureau and 34 State experiment stations joined in making the first 4-region survey to learn what housing features farm families want, the extent of their household activities, and their belongings that must be stored.

## House plans in the making

Farm houses, more than city houses, are headquarters for many work activities and take special planning if they are to combine efficiency and comfort. Yet few architects specialize in such plans. To provide farmhouse plans suited to different family requirements and sections of the country, the Department of Agricul-

ture and the States together maintain a regional plan service, and the BHNHE shares in this.

Recently, BHNHE housing specialists have been cooperating to develop expandible house plans, which meet needs of young couples who must start a home thrifitly. The Bureau is giving attention to features in plans which provide for dual use of space and convenience at the first building stage, when the family occupies the basic unit--usually a large living room, kitchen, and bath--awaiting the time when bedrooms can be built.

On the research-center farm, milkers occupy three expandible houses experimentally built near the dairy barns. As the families use these houses, BHNHE housing specialists are keeping in touch with them, to observe serviceability of types of floor coverings and kitchen counter surfaces, and also to learn how well storage units and other interior arrangements of the plans meet family needs.

#### Refrigeration, farm-size

To develop plans for large refrigerators suited to farm use is a recent Department research project in which the Bureau is sharing. After a survey of walk-in refrigerators on 160 farms, BHNHE physicists and agricultural engineers in the Department built their first experimental walk-in, designing it to overcome faults in designs observed and to add improvements. This farm refrigerator has a large chill room with removable shelves and a freezer room capable of freezing 100 pounds of food in a day. Two nearby farmers built walk-ins from the plan, so that records could be obtained on the operation under normal use conditions. The designers then pronounced the working drawings ready to go to the country's farmers through the regional plan service.

Now, the laboratory model has been redesigned to provide an alternate arrangement: a bigger freezing

room and smaller chill room. Moved to a Maryland farm, this design is to undergo its service testing, to make sure that it, too, will merit approval.

#### Equipment performance

From BHNHE research on the operating characteristics of home equipment come recommendations on selection, care, and use. Modern dryers now line the walls of one laboratory where equipment specialists are developing test procedures for predicting performance of dryers of different types when in home use. In one series of experiments, the dryers work with varied fabrics from terry toweling to nylon crepe to show how different drying methods affect each fabric.

Meanwhile, other specialists are developing test procedures for evaluating performance of modern types of vacuum cleaners. To measure cleaning ability under conditions of actual use, a number of homes near by are serving as auxiliary laboratories.

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1. In this kitchen, experiments were recently made to compare amounts of electricity and bottled gas used in cooking family meals.
  2. Determining space required to store a given amount of bedding and linens, these workers measure clearance for hand action.



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# **Family Economics Research**

In the Family Economics Division, the staff is mainly concerned with reporting the kind of living rural families get and how well fed the Nation's families are and with making recommendations for better diets.

## Families' food

Some of the food economists have lately been out in midwest and northcentral States interviewing some 2,000 rural homemakers, to learn about present family food practices on farms, in villages, and in the open country. From this work came masses of facts and figures to be analyzed. The reports, with statistical tables, will show how the food dollar is spent and how much of each kind of food rural families in this region raise at home and buy in market, how much food they can and freeze.

Reports of this kind show further strong and weak points nutritionally. Population groups most in need of nutritional improvement are located and weak points in diets singled out. From recent surveys among both city and rural people the Bureau has learned that calcium is the nutrient most likely to be short in family food. A recent cooperative project with southern States showed that many farm families do not keep cows and get too little milk in their diets.

## Guides to good nutrition

As one means of helping families to improve diets and to get good returns for their food money, food economists develop lists of food quantities that provide for nutritional needs at different cost levels. They take into account survey findings showing what people eat, figures on food costs, and data on the nutrients foods contain and the amounts of nutrients that meet human needs. From time to time, they revise these family guides to

good nutrition to keep in line with advances in nutrition knowledge and changes in prices and food habits.

The Bureau's guides on food management have been much used by families and by teachers and extension and social workers. Recent, the Bureau has adapted this type of material to fit food-management problems in institutions where the 'family' to be fed may number hundreds. Research is under way to learn more about institutional diets and how well they meet needs of the people being served.

#### Food-composition clearinghouse

Providing up-to-date tables on average amounts of calories, protein, and key vitamins and minerals that foods offer is the task of one group which has specialized in nutrition and food chemistry. Their work is essential to staff members who conduct family food surveys and calculate nutritive value of food supplies, and to those preparing food-management guides. They serve the public by publication of food-composition tables needed by dietitians, doctors, and others who plan diets. Writers of many text books and diet manuals quote the food-composition figures, spreading their use further to wide circles.

The staff bases its tables on worldwide laboratory findings measuring amounts of nutrients contained in man's food. All that can be learned about the nutrients in each kind of food is systematically recorded and evaluated to arrive at the best figure for each nutrient. As scientific knowledge advances, the tables become increasingly accurate and complete. Eleven nutrients are now included in the published tables, and the staff looks forward to adding more.

#### Consumer-education aid

Assembling dependable information on some particular food for consumer education has long been a problem for extension leaders, teachers, market specialists,

and writers. Food economists in the Bureau have begun to compile source material and issue a booklet series. Tomatoes, peaches, beef, pork have thus far been dealt with, providing facts on nutritive value, food value for money spent in comparison with other foods, seasonality of supplies, selection and use of different varieties, grades, and forms, and use in family meals.

#### Farm and city wardrobes

Much more is known about the food families eat than about the clothing they keep on hand, buy, and make at home. As a start toward obtaining information on such points, the Bureau interviewed families in a northern and a southern city and in two rural counties near the northern city. The reports being completed give much statistical detail on kinds and quantities of clothing owned at different income levels and by persons of different age groups. The survey shows, for example, that, taking wardrobes as a whole, husbands and wives on farms have about one-fourth less clothing than those in the city. It shows that while home sewing is more prevalent among farm than city families, it is an important source only for a few types of clothing worn by farm women and girls. The data are useful, not only to fiber producers and the textile and clothing industry, but also to teachers planning courses for college, high school, and homemaker groups and to welfare workers who plan for family assistance.

#### Rural family living

To find out how farm families are faring in providing for wants and needs is another assignment of this division. From a study in one area, staff members are now comparing levels of living in four counties of Kansas following World War II and in 1935-36, to see how changes in spending are related to changing income, prices, and developments in the surrounding community.

A standing date each autumn calls family economists in the Bureau to take major responsibility for the

family living programs included in the Department's Agricultural Outlook Conference. The conference brings to Washington extension specialists from all parts of the country, seeking latest information on economic trends and prospects. Picture-and-graph charts are relied on to present many of the economic trends in rural living, from home improvement to medical care.

## Getting out the facts

### Findings take many forms

Getting findings ready for public appearance is the last step in the research on ways to improve home-making and ways to use products from the land more effectively. This is where specialists in information techniques join with the research scientists. Publications take on such varied forms as printed bulletins, educational charts, press releases, radio scripts, slide-films, occasional motion pictures and television programs.

### Considering the user

The staff approaches each research report with the question: Who will use these facts? Are they for research scientists? Or will they be most useful to teachers, extension leaders, and other professional home economics groups? Or are there practical points to give directly to homemakers from coast to coast? Sometimes the same research project provides highly technical data for one audience, and homely how-to-do-it directions for another.

### Freezing news, for example

Suppose the food laboratories have new research results on home freezing to present. You'd find the Bureau's small group of writers, editors, artists, and layout specialists pooling their know-how to help the

scientists put the new facts into clear directions for homemakers, and lining up step-by-step picture sequences to demonstrate how to proceed. With format, paper, and type decided, a bulletin would be shaping up for the printer.

Plans for press pictures would be going forward, too, featuring a capable, attractive woman using the new technique against a home kitchen background. A visual specialist might be figuring how to make these same pictures into a filmstrip for teachers to use, and thinking ahead of how to use them on television. Before publication time, a writer would turn out a press story to go to editors of magazines, women's pages in newspapers, and women's program directors on radio and TV.

Meanwhile, the editors would be reviewing a manuscript of the research report to get it into form for publication as a technical bulletin or as a contribution to a scientific journal.

#### How many bulletins ?

Records for the past 30 years, show that more than 146,000,000 copies of the Bureau's printed bulletins have been distributed. The bulletin on home canning of fruits and vegetables, through many editions, has totaled 12,000,000 copies; the stain-removal bulletin nearly 4,000,000. In current circulation are about 160 technical and popular publications printed by the Government press. In addition, many research reports are printed in scientific journals.

## Some work accomplished

What kind of progress has been made since the Congress established a Bureau of Home Economics on July 1, 1923? The record shows much pioneering, many far-reaching tasks completed, or advanced. Among highlights that rate mention are the following examples:

The Bureau--

1927--Pioneered in working out procedures to evaluate performance of home refrigerators--incorporated in the American standard test procedure now used by manufacturers and testing laboratories.

1928--Began studies of fabric serviceability, with laboratory measurement of physical properties and actual-use trials to provide technical information needed by shoppers and producers.

1928-31--Pioneered in developing self-help and other functional principles in designs for children's clothing.

1931--Gave homemakers time-and-temperature directions for cooking meats of different cut and quality, based on extensive chemical and physical experiments.

1933--Produced family food plans at four spending levels, as a flexible guide to good nutrition, whatever the family income and the ages and activities of the members.

1933--Began to take part in the Department of Agriculture's annual Outlook Conference--briefing home-management specialists on economic progress and problems of rural families.

1934--Shared in the Department's first survey showing conditions of farm houses.

1935-37--Joined with other agencies to gain the first comprehensive picture of American family spending and saving--the Consumer Purchases Study.

1937-40--Took scientific measurements of 147,000 children and about 15,000 women for improved systems of sizing clothes.

1939--Determined vitamin A requirements of adults by finding quantities required to restore and maintain normal night vision following impairment by a vitamin A-deficient experimental diet.

1939--Determined thiamine content of about 100 foods--the first systematic analysis using a pure crystalline vitamin as a standard.

1940--Developed designs for women's work clothes, setting high standards for comfort, efficiency and safety These functional garments for farm, factory,

and home work stimulated industry to launch a new branch of women's wear.

1940--Began laboratory work on deterioration of household textiles due to micro-organisms. One result: 3 public service patents.

1941--Published the first simple daily nutrition guide to win nationwide acceptance.

1942-45--Provided wartime guidance to homemakers in conserving food, clothing, and equipment.

1942--Cooperated in a nationwide survey of family spending and saving in wartime.

1946--Reported research revealing wide differences in the extent to which the body can use the carotenes in yellow and green vegetables for vitamin A needs.

1946--Completed 3-year intensive research which put home canning on its own scientific basis, replacing earlier adaptations of industrial research data for the purpose.

1947-49--Cooperated in four regional surveys to determine housing features that farm families want and to provide facts on household activities, essential to establishing space needs for work and storage.

1948--Completed a systematic laboratory study, determining effects of household cooking methods on vitamin and mineral content of 20 commonly used foods.

1948--Designed a step-saving kitchen, which aroused wide national and international interest among homemakers, equipment manufacturers, and architects.

1948--Launched clothing- and food-consumption studies as part of the Department's new research and marketing program.

1950--Issued 'Family Fare' bringing under one cover information on nutrition and food management, including modern principles of cookery and recipes.

1951--Prepared the first comprehensive report showing amounts of folic acid--one of the newer B vitamins--in several hundred familiar foods.

1952--Took leadership in a National Food and Nutrition Institute for 400 persons from public and private agencies to appraise progress in nutrition and plan for improved programs.

## History highlights

### How the Bureau evolved

In 1894 began the United States Government's research in human nutrition. That year, the Congress appropriated \$10,000 'to enable the Secretary of Agriculture to investigate and report upon the nutritive value of the various articles and commodities used for human food, with special suggestions of full, wholesome, and edible rations, less wasteful and more economical than those in common use.' Planning a program was entrusted to Dr. W. O. Atwater, director of the Department's experiment station work. His own research was in nutrition, and so comprehensive and clear were the goals which he set for the Government's nutrition investigations that the Bureau still steers by them.

In 1915, from this nucleus of nutrition research, an Office of Home Economics was organized. This was done in response to demand of extension workers for more scientific facts, in nutrition and other phases of home economics. The Smith-Lever Act of 1914 had opened the way for a nationwide program of home demonstration work, but at every turn the leaders were confronted by questions they could not answer.

### The Bureau established

During World War I, pressure increased for more help on home problems and the Nation became aware of the practical value of scientific knowledge on food and nutrition in a world crisis. On July 1, 1923, the home economics unit in the Department of Agriculture was given the responsibilities and dignity of Bureau status. The new Bureau of Home Economics ranked in administrative level with other bureaus doing research in animal and plant production, and was responsible directly to the Secretary of Agriculture.

## Changes in name and leadership

In 1943, during another world conflict in which nutrition and economical use of food, clothing, and other supplies became a paramount issue, a change was made in the Bureau's organization and name. Protein chemistry research directly related to nutrition in another branch of the Department, was merged with the nutrition work in the home economics laboratories, and Bureau of Human Nutrition and Home Economics was the name given for the whole.

These changes followed soon after establishment of the Agricultural Research Administration, which brings together within the Department a number of agencies whose chief assignment is advancing scientific knowledge on production and use of food, fiber, and other products of the land. The Bureau of Human Nutrition and Home Economics is an integral part of that group.

## Administrative responsibility

Persons filling the key positions in the Bureau at present are:

Chief of Bureau, Dr. Hazel K. Stiebeling

Assistant Chief, Dr. Ruth O'Brien

Assistant Chief, Dr. Callie M. Coons

### Heads of Divisions:

Family Economics, Dr. Gertrude S. Weiss

Food and Nutrition, Dr. Esther L. Batchelder

Housing and Household Equipment, Mrs. Lenore  
Sater Thy

Textiles and Clothing, Dr. Suzanne Davison

Administrative Management, Miss Cecelia Huneke

Information, Miss Kathryn Cronister

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Bureau of Human Nutrition and Home Economics

Agricultural Research Administration

U. S. Department of Agriculture

Washington 25, D. C.

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